

Title (en)

YTTRIUM FLUORIDE FILMS AND METHODS OF PREPARING AND USING YTTRIUM FLUORIDE FILMS

Title (de)

YTTRIUMFLUORID-FILME SOWIE VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG VON YTTRIUMFLUORID-FILMEN

Title (fr)

FILMS DE FLUORURE D'YTTRIUM ET PROCÉDÉS DE PRÉPARATION ET D'UTILISATION DE FILMS DE FLUORURE D'YTTRIUM

Publication

**EP 4136272 A1 20230222 (EN)**

Application

**EP 21788468 A 20210414**

Priority

- US 202063009884 P 20200414
- US 2021027309 W 20210414

Abstract (en)

[origin: US2021317572A1] Described are yttrium fluoride compositions, including deposited films, e.g., coatings, that contain yttrium fluoride; methods of preparing yttrium fluoride compositions and deposited film coatings that contain yttrium fluoride; as well as substrates that have a deposited film coating that contains yttrium fluoride at a surface and methods and equipment that include the substrates.

IPC 8 full level

**C23C 16/40** (2006.01); **C23C 16/455** (2006.01); **C23C 16/56** (2006.01)

CPC (source: EP KR US)

**C23C 16/0272** (2013.01 - US); **C23C 16/405** (2013.01 - EP KR US); **C23C 16/4404** (2013.01 - EP KR US); **C23C 16/4488** (2013.01 - EP KR); **C23C 16/45525** (2013.01 - EP US); **C23C 16/45555** (2013.01 - KR); **C23C 16/56** (2013.01 - EP KR US); **H01J 37/32495** (2013.01 - KR); **H01L 21/02** (2013.01 - US); **Y10T 428/265** (2015.01 - US); **Y10T 428/31678** (2015.04 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**US 12031212 B2 20240709**; **US 2021317572 A1 20211014**; CN 115485411 A 20221216; EP 4136272 A1 20230222; EP 4136272 A4 20240522; JP 2023521871 A 20230525; KR 20220166331 A 20221216; TW 202202652 A 20220116; TW I781585 B 20221021; WO 2021211727 A1 20211021

DOCDB simple family (application)

**US 202117230742 A 20210414**; CN 202180032124 A 20210414; EP 21788468 A 20210414; JP 2022562590 A 20210414; KR 20227039207 A 20210414; TW 110113339 A 20210414; US 2021027309 W 20210414